

- **Factoring by grouping (4 terms) - PRACTICE**
  - Cut problem in half (2 terms in each half)
  - Factor each half using GCF
  - Make sure that what's in parentheses matches
  - Group the factors together

1) $4v^3 - 12v^2 - 5v + 15$	2) $8r^3 - 64r^2 + r - 8$	3) $12p^3 - 21p^2 + 28p - 49$
4) $x^2a + x^2b - 16a - 16b$	5) $12x^3 + 2x^2 - 36x - 5$	6) $y^3 + 3y^2 - 9y - 27$
7) $t^3 - t^2 + t - 1$	8) $ay^2 + 4y^2 - 9a - 36$	9) $16mn - 4m^2 + 28n - 7m$
10) $4x^3 + 12x^2 - 9x - 27$	11) $6x^2 - 24x + 2xy - 8y$	12) $105n^3 + 175n^2 - 75n - 125$

Pull out GCF first, then factor what's left inside